

In the Claims

Claims 1, 2, 15, 26, 29, 31, 33, 35, 36, 37, 38, 39 and 40 are amended.

Claim 41 is canceled.

Claims 1-40 remain in the application and are listed below:

1. (Currently Amended) A method in a server-client environment, the method comprising:

receiving at the server ~~a print request from the client~~ for a driver identifier for a printer that is attached to the client ~~and can print information at the client;~~

using the driver identifier to select a closest matching driver of a plurality of drivers to install at the server; and

installing, at the server and not at the client, the selected driver in order to enable applications executing on the server to print to the printer using the installed driver.

2. (Currently Amended) A method as recited in claim 1, ~~further comprising printing the applications that are executing on the server at the printer~~ wherein the receiving comprises receiving the driver identifier from the client.

3. (Original) A method as recited in claim 1, wherein the driver identifier includes both a driver name and a driver version.

4. (Original) A method as recited in claim 1, wherein the using comprises accessing a library at the server that stores the plurality of drivers.

1 5. (Original) A method as recited in claim 1, wherein:

2 the using comprises checking whether any of the plurality of drivers has a
3 corresponding driver identifier that is the same as the received driver identifier;
4 and

5 if a particular driver of the plurality of drivers has a corresponding driver
6 identifier that is the same as the received driver identifier, then selecting that
7 driver to install at the server.

8
9 6. (Original) A method as recited in claim 1, wherein:

10 the using comprises checking whether any of the plurality of drivers
11 currently has a corresponding driver identifier that is different than the received
12 driver identifier but that corresponds to the same driver as the received driver
13 identifier; and

14 if a particular driver of the plurality of drivers currently has a corresponding
15 driver identifier that is different than the received driver identifier but that
16 corresponds to the same driver as the received driver identifier, then selecting that
17 driver to install at the server.

18
19 7. (Original) A method as recited in claim 6, wherein one of the plurality of
20 drivers currently has a corresponding driver identifier that is different than the
21 received driver identifier but that corresponds to the same driver because of a
22 driver name change by a source of the driver.

1 **8.** (Original) A method as recited in claim 6, further comprising:

2 issuing a notification that the selected driver currently has a corresponding
3 driver identifier that is different than the received driver identifier but that
4 corresponds to the same driver as the received driver identifier.

5
6 **9.** (Original) A method as recited in claim 1, wherein:

7 the receiving comprises receiving a driver name and a driver version;

8 the using comprises checking whether any of the plurality of drivers has a
9 corresponding driver name that is the same as the received driver name; and

10 if a particular driver of the plurality of drivers has a corresponding driver
11 name that is the same as the received driver name, then selecting that driver to
12 install at the server.

13
14 **10.** (Original) A method as recited in claim 9, further comprising:

15 selecting a first driver with a corresponding driver name that is the same as
16 the received driver name to install at the server without regard for whether the
17 received driver version is the same as a corresponding driver version of the first
18 driver.

19
20 **11.** (Original) A method as recited in claim 9, further comprising:

21 issuing a notification that the selected driver has a corresponding driver
22 name that is the same as the received driver name but a corresponding driver
23 version that is different than the received driver version.

12. (Original) A method as recited in claim 9, further comprising:

checking whether the selected driver has a corresponding driver version that is the same as the received driver version; and

if the selected driver does not have a corresponding driver version that is the same as the received driver version, then obtaining a new copy of the driver that has the same driver version as the received driver version.

13. (Original) A method as recited in claim 12, further comprising obtaining a new copy of the driver only if the received driver version indicates a more recent version of the driver than is indicated by the driver version corresponding to the selected driver.

14. (Original) At least one computer-readable memory containing a computer program that is executable by a processor to perform the method recited in claim 1.

15. (Currently Amended) A method implemented in a server in a server-client environment, the method comprising:

automatically selecting at least one of a plurality of drivers corresponding to a peripheral device attached to the client; and

installing, at the server and not at the client, the selected at least one driver wherein the server can interface with the peripheral device using the driver to cause the selected at least one driver to perform an action at the peripheral device using the driver.

1 **16.** (Original) A method as recited in claim 15, wherein the peripheral device
2 comprises a printer.

3
4 **17.** (Original) A method as recited in claim 15, wherein the automatically
5 selecting comprises using a received driver identifier corresponding to a printer to
6 select a closest matching driver of the plurality of drivers to install at the server.

7
8 **18.** (Original) A method as recited in claim 15, wherein:

9 the automatically selecting comprises checking whether any of the plurality
10 of drivers has a corresponding driver identifier that is the same as a received driver
11 identifier; and

12 if a particular driver of the plurality of drivers has a corresponding driver
13 identifier that is the same as the received driver identifier, then installing that
14 driver at the server.

15
16 **19.** (Original) A method as recited in claim 15, wherein:

17 the automatically selecting comprises checking whether any of the plurality
18 of drivers currently has a corresponding driver identifier that is different than a
19 received driver identifier but that corresponds to the same driver as the received
20 driver identifier; and

21 if a particular driver of the plurality of drivers currently has a corresponding
22 driver identifier that is different than the received driver identifier but that
23 corresponds to the same driver as the received driver identifier, then installing that
24 driver at the server.

1 **20.** (Original) A method as recited in claim 19, further comprising:

2 issuing a notification that the installed driver currently has a corresponding
3 driver identifier that is different than the received driver identifier but that
4 corresponds to the same driver as the received driver identifier.

5
6 **21.** (Original) A method as recited in claim 15, wherein:

7 the automatically selecting comprises checking whether any of the plurality
8 of drivers has a corresponding driver name that is the same as a received driver
9 name; and

10 if a particular driver of the plurality of drivers has a corresponding driver
11 name that is the same as the received driver name, then installing that driver at the
12 server.

13
14 **22.** (Original) A method as recited in claim 21, further comprising:

15 selecting a first driver with a corresponding driver name that is the same as
16 the received driver name to install at the server without regard for whether a
17 received driver version is the same as a corresponding driver version of the first
18 driver.

19
20 **23.** (Original) A method as recited in claim 21, further comprising:

21 issuing a notification that the installed driver has a corresponding driver
22 name that is the same as the received driver name but a corresponding driver
23 version that is different than the received driver version.

1 **24.** (Original) A method as recited in claim 21, further comprising:

2 checking whether the installed driver has a corresponding driver version
3 that is the same as a received driver version; and

4 if the selected driver does not have a corresponding driver version that is
5 the same as the received driver version, then obtaining a new copy of the driver
6 that has the same driver version as the received driver version.

7
8 **25.** (Previously Presented) The method of claim 15, wherein at least one
9 computer-readable memory contains a computer program that is executable by a
10 processor to perform the method.

11
12 **26.** (Currently Amended) One or more computer-readable media having stored
13 thereon a computer program that, when executed by one or more processors of a
14 server in a client-server system, causes the one or more processors to:

15 receive a printer driver identifier for a printer attached to a client;

16 use the printer driver identifier to select one of a plurality of printer drivers
17 to install at the server and not at the client according to the following,

18 if a particular printer driver of the plurality of printer drivers has a
19 corresponding printer driver identifier that is the same as the received
20 printer driver identifier, then selecting that particular driver,

21 if a particular printer driver of the plurality of printer drivers
22 currently has a corresponding printer driver identifier that is different than
23 the received printer driver identifier but that corresponds to the same printer
24 driver as the received printer driver identifier, then selecting that particular
25 printer driver, and

1 if a particular printer driver of the plurality of printer drivers has a
2 corresponding driver name that is the same as a driver name received as
3 part of the printer driver identifier, then selecting that particular printer
4 driver without regard for whether that particular printer driver has a
5 corresponding driver version that is the same as a driver version received as
6 part of the printer driver identifier; and

7 install the selected printer driver at the server in order to enable the
8 selected printer to print.

9
10 **27.** (Original) A method as recited in claim 26, wherein the server comprises a
11 terminal server and wherein the client comprises a terminal server client.

12
13 **28.** (Original) A method as recited in claim 26, wherein one of the plurality of
14 printer drivers currently has a corresponding printer driver identifier that is
15 different than the received printer driver identifier but that corresponds to the same
16 printer driver due to a name of the printer driver being changed.

17
18 **29.** (Currently Amended) An apparatus ~~including a server and a client, the~~
19 ~~apparatus~~ comprising:

20 a driver library including a plurality of printer drivers; and

21 a driver matching module to select at least one of the plurality of printer
22 drivers to be installed ~~at the server~~ on the apparatus to enable a printer attached to
23 the a client connected with the apparatus to print, ~~the selected at least one printer~~
24 ~~driver corresponding to the printer attached to the client to perform a printing~~

1 action at the printer, wherein the driver is installed on the apparatus and not the
2 client.

3
4 **30.** (Previously Presented) An apparatus as recited in claim 29, wherein the
5 driver matching module further:

6 checks whether any of the plurality of drivers has a corresponding driver
7 identifier that is the same as a received driver identifier; and

8 wherein if a particular driver of the plurality of drivers has a corresponding
9 driver identifier that is the same as the received driver identifier, then install that
10 driver at the server.

11
12 **31.** (Currently Amended) An apparatus as recited in claim 29, further
13 comprising:

14 a mapping table to map previous driver identifiers to subsequent driver
15 identifiers;

16 wherein the driver matching module further checks the mapping table to
17 determine whether any of the plurality of drivers currently has a corresponding
18 driver identifier that is different than a received driver identifier but that is a
19 subsequent driver identifier mapped to the received driver identifier as a previous
20 driver identifier corresponds to a same printer driver as the received printer driver
21 identifier; and

22 ~~if a particular driver of the plurality of drivers currently has a corresponding~~
23 ~~driver identifier that is different than a received driver identifier but that is a~~
24 ~~subsequent driver identifier mapped to the received driver identifier as a previous~~
25

1 ~~driver identifier, so, then the driver matching module further~~ installs that the
2 corresponding printer driver at the server.

3
4 **32.** (Previously Presented) An apparatus as recited in claim 29, wherein the
5 driver matching module further:

6 checks whether any of the plurality of printer drivers has a corresponding
7 driver name that is the same as a received driver name; and

8 wherein if a particular printer driver of the plurality of printer drivers has a
9 corresponding driver name that is the same as the received driver name, then
10 install that printer driver at the server without regard for whether that particular
11 printer driver has a corresponding driver version that is the same as a received
12 driver version.

13
14 **33.** (Currently Amended) A system comprising:

15 a client computer having a local printer attached thereto; and

16 a server computer coupled to the client computer via a network, wherein the
17 server computer includes,

18 a driver library including a plurality of printer drivers, and

19 a driver matching module to select at least one of the plurality of
20 printer drivers for installation on the server computer and not the client
21 computer to allow applications executing on the server computer to print to
22 the local printer, the driver matching module selecting one of the plurality
23 of printer drivers for installation based on a printer driver identifier and
24 according to the following,
25

1 if a particular printer driver of the plurality of printer drivers
2 has a corresponding printer driver identifier that is the same as the
3 received printer driver identifier, then selecting that particular driver
4 for installation in order to enable the local printer to print,

5 if a particular printer driver of the plurality of printer drivers
6 currently has a corresponding printer driver identifier that is different
7 than the received printer driver identifier but that corresponds to the
8 same printer driver as the received printer driver identifier, then
9 selecting that particular printer driver for installation in order to
10 enable the local printer to print, and

11 if a particular printer driver of the plurality of printer drivers
12 has a corresponding driver name that is the same as a driver name
13 received as part of the printer driver identifier, then selecting that
14 particular printer driver without regard for whether that particular
15 printer driver has a corresponding driver version that is the same as a
16 driver version received as part of the printer driver identifier for
17 installation on the server computer in order to enable the local
18 printer to print.

19
20 **34.** (Previously Presented) A system as recited in claim 33, wherein the client
21 computer transmits the printer driver identifier to the server computer.
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1 **35.** (Currently Amended) A computer readable medium having computer
2 executable instructions, which when executed by a processor, causes the processor
3 to:

4 receive at ~~the~~ a server ~~a print request from the client~~ for a driver identifier
5 for a printer that is attached to ~~the~~ a client connected with the server, wherein the
6 server ~~and~~ can print information at the client;

7 use the driver identifier to select a closest matching driver of a plurality of
8 drivers to install at the server, and not at the client; and

9 install, at the server, the selected driver in order to enable applications that
10 are executing to print to the printer using the installed driver.

11
12 **36.** (Currently Amended) ~~A computer instruction~~ The computer-readable
13 media of claim 35, wherein ~~the~~ said applications ~~that are executing to the printer~~
14 ~~are running~~ on the server.

15
16 **37.** (Currently Amended) ~~A computer instruction~~ The computer-readable
17 media of claim 35, wherein the driver identifier includes both a driver name and a
18 driver version.

19
20 **38.** (Currently Amended) ~~A computer instruction~~ The computer-readable
21 media of claim 35, wherein the ~~using comprises accessing~~ driver identifier is used
22 to access a library at the server that stores the plurality of drivers.

1 **39.** (Currently Amended) ~~A computer instruction~~ The computer-readable
2 media of claim 35, wherein:

3 ~~the use comprises~~ the driver identifier is used to checking whether any of
4 the plurality of drivers has a corresponding driver identifier that is the same as the
5 received driver identifier; and

6 if a particular driver of the plurality of drivers has a corresponding driver
7 identifier that is the same as the received driver identifier, then select that driver to
8 install at the server.

9
10 **40.** (Currently Amended) ~~A computer instruction~~ The computer-readable
11 media of claim 35, wherein:

12 ~~the use comprises~~ the driver identifier is used to checking whether any of
13 the plurality of drivers currently has a corresponding driver identifier that is
14 different than the received driver identifier but that corresponds to the same driver
15 as the received driver identifier; and

16 if a particular driver of the plurality of drivers currently has a corresponding
17 driver identifier that is different than the received driver identifier but that
18 corresponds to the same driver as the received driver identifier, then select that
19 driver to install at the server.

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21 **41.** (Canceled).
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